

# EUROPEAN PATENT OFFICE

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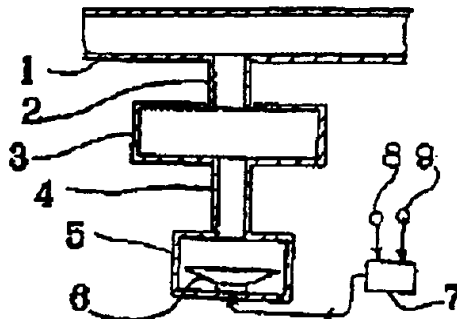
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TITLE : SILENCING SYSTEM OF ACTIVE  
NOISE CONTROL SYSTEM



ABSTRACT : PURPOSE: To provide a silencing system of an active noise control type which exerts a remarkable silencing effect on a wide range of frequencies by connecting plural pieces of silencers of Helmholtz type consisting of connecting pipe and cavity chambers in series and mounting a speaker at the cavity chamber of the last end.

CONSTITUTION: An air duct 1 is provided with the connecting pipe 2, the cavity chamber 3, the connecting pipe 4 and the cavity chamber 5 in series and the speaker 6 is mounted at the cavity chamber 5 and is controlled by a controller 7. Amplified frequencies having plural (two in this embodiment) peaks are obtd. with the sound pressure of the speaker 6 and the frequency band of a wide silencing effect is obtd. The silencing system having the remarkable silencing effect on the certain broad frequencies is obtd. particularly if the two peaks are set in proximity.

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